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Claims 1-2 canceled

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- 21 3. (currently amended) The method of claim + 33 wherein said auxinic compound is a monosubstituted indole-3-acetic acid or salt, ester or amide thereof.
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Claims 4-5 canceled

6. (currently amended) The method of claim + 33 wherein said auxinic compound is a disubstituted indole-3-acetic acid.

Claims 7-8 canceled

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- A2 9. (currently amended) The method of claim + 33 wherein said auxinic compound is 2-fluoroindole-3-acetic acid, 4-fluoroindole-3-acetic acid, 6-fluoroindole-3-acetic acid, 7-fluoroindole-3-acetic acid, 2-bromoindole-3-acetic acid, 4-bromoindole-3-acetic acid, 6-bromoindole-3-acetic acid, 7-bromoindole-3-acetic acid, 2-iodoindole-3-acetic acid, 4-iodoindole-3-acetic acid, 5-iodoindole-3-acetic acid, 6-iodoindole-3-acetic acid, 7-iodoindole-3-acetic acid or salts, esters or amides thereof.
10. (currently amended) The method of claim + 33 wherein said auxinic compound is 2-fluoroindole-3-acetic acid, 4-fluoroindole-3-acetic acid, 6-fluoroindole-3-acetic acid, 7-fluoroindole-3-acetic acid or salts, esters or amides thereof.
11. (currently amended) The method of claim + 33 wherein said auxinic compound is 6-fluoroindole-3-acetic acid, 7-fluoroindole-3-acetic acid or salts, esters or amides thereof.
12. (currently amended) The method of claim + 33 wherein said auxinic compound is 2-bromoindole-3-acetic acid, 4-bromoindole-3-acetic acid, 6-bromoindole-3-acetic acid, 7-bromoindole-3-acetic acid or salts, esters or amides thereof.

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13. (currently amended) The method of claim + 33 wherein said auxinic compound is 4-bromoindole-3-acetic acid, 6-bromoindole-3-acetic acid, 7-bromoindole-3-acetic acid or salts, esters or amides thereof.
14. (currently amended) The method of claim + 33 wherein said auxinic compound is 6-bromoindole-3-acetic acid, 7-bromoindole-3-acetic acid or salts, esters or amides thereof.
15. (currently amended) The method of claim + 33 wherein said auxinic compound is 2-iodoindole-3-acetic acid, 4-iodoindole-3-acetic acid, 5-iodoindole-3-acetic acid, 6-iodoindole-3-acetic acid, 7-iodoindole-3-acetic acid or salts, esters or amides thereof.
16. (currently amended) The method of claim + 33 wherein in said auxinic compound one of  $R_1-R_5$  is an alkyl-group and the remaining  $R_1-R_5$  groups are hydrogens.
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Claims 17-19 canceled

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20. (currently amended) The method of claim + 33 wherein in said auxinic compound one of  $R_1-R_5$  is an alkoxy-group and the remaining  $R_1-R_5$  groups are hydrogens.
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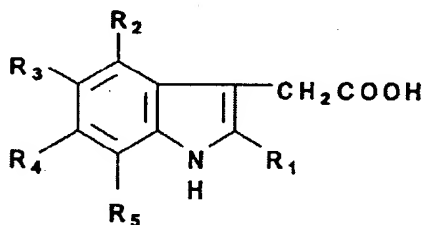
Claims 21-25 canceled

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26. (currently amended) The method of claim + 33 wherein said plant cell or tissue is that of a hard-to-regenerate plant.
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Claims 27-32 canceled

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33. (original) A method for regeneration of a plant from a plant cell or plant tissue which comprises the steps of:
- (a) contacting said plant cell or plant tissue with an amount of an auxinic compound effective for regeneration of roots and
  - (b) contacting said plant cell or plant tissue with a combination of said auxinic compound and a cytokinin in a combined amount effective for the regeneration of shoots from said plant cell or plant tissue wherein said auxinic compound has the formula:



or salts, esters and amides thereof, wherein R<sub>1</sub>-R<sub>5</sub> are independently selected from the group consisting of a hydrogen, a halogen, an alkyl-group, an alkoxy-group, an acyl-group, an acyloxy-group, and an acylamido-group, but excluding indole-3-acetic acid and 5-bromoindole-3-acetic acid.

34. (original) The method of claim 33 wherein said alkyl-group, said alkoxy-group, said acyl-group, said acyloxy-group and said acylamino-group have 1-10 carbon atoms.
35. (original) The method of claim 33 wherein in said auxinic compound at least one of R<sub>1</sub>-R<sub>5</sub> is a halogen.

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36. (original)The method of claim 33 wherein said auxinic compound is 2-fluoroindole-3-acetic acid, 4-fluoroindole-3-acetic acid, 6-fluoroindole-3-acetic acid, 7-fluoroindole-3-acetic acid, 2-bromoindole-3-acetic acid, 4-bromoindole-3-acetic acid, 6-bromoindole-3-acetic acid, 7-bromoindole-3-acetic acid, 2-iodoindole-3-acetic acid, 4-iodoindole-3-acetic acid, 5-iodoindole-3-acetic acid, 6-iodoindole-3-acetic acid, or 7-iodoindole-3-acetic acid.
37. (original)The method of claim 33 wherein in said auxinic compound at least one of  $R_1$ - $R_5$  is an alkyl group.
38. (original)The method of claim 33 wherein said plant cell or plant tissue comprises foreign DNA.
39. (original)The method of claim 33 wherein said plant cell or tissue is of a plant selected from the group of hard to regenerate plants consisting of cassava, woody plants and monocotyledonous plants.

Claims 40-60 canceled

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61. (new)The method of claim 33 wherein the plant is a potato.

62. (new)The method of claim 61 wherein the auxinic compound is 7-ethyl indole-3-acetic acid.
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5/27/04